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PROGRAM: BACCALAUREUS TECHNOLOGIAE
ENVIRONMENTAL HEALTH

SUBJECT: OCCUPATIONAL HEALTH AND SAFETY IV

CODE: **OHS 43-1**

DATE: 28 NOVEMBER 2016

DURATION: 3 HOURS

WEIGHT: 50:50

TOTAL MARKS: **150**

EXAMINERS: MRS. M. CHADYIWA

MODERATORS: MR. G. SMALL

NUMBER OF PAGES: 3 PAGES

INSTRUCTIONS TO STUDENTS:

1. ANSWER ALL THE QUESTIONS.
 2. READ YOUR QUESTIONS CAREFULLY. YOU WILL BE PENALISED IF YOUR ANSWERS ARE NOT PROPERLY STRUCTURED AND NUMBERED.
 3. LEAVE SPACE IN BETWEEN THE ANSWERS.
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QUESTION 1

- 1.1 To which workplaces does the OHS ACT not apply? (2)**
- 1.2 Outline the factors that are typically included in the arrangements section of a Health and Safety policy document. (8)**
- 1.3 What do you say to the argument that it is better for a company and its workers to concentrate on its own survival, even if there are some reductions in OHS spending? (10)**
- 1.4 The Employer has been informed that a Worker is off sick with diarrhea and vomiting which are the same symptoms as five patients on the unit. What is the OHS department required to do? (10)**
- 1.5 Which OHS legislation helps in the event were a bridge collapses during construction? Refer to the Murray and Roberts case that happened earlier this year. (10)**

[40 MARKS]

QUESTION 2

Lily Gold mine would like to get certification on three systems to improve their sells. SHEQ Management System is a tool to enable the design and implementation of management systems based on the ISO or other standards relative to your business. Whether you are only using one management system, or a combination of two or more systems, SHEQ Management Systems provides an easy to use system which will eliminate duplication of processes and procedures, and ensure easy navigation through the documents, processes and procedures. The standards which are typically used include ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System) and OHSAS 18001 (Occupational Health and Safety).

- 2.1 Explain in detail the benefits of certification in terms of management of hazards, environment and quality in company operations. (10)**
- 2.2 A worker is seriously injured in a machinery accident at a large production plant. The representative representing the worker alleges that the health and safety representative had failed to do a thorough inspection of the workplace and feels that he should be held liable for the injury. Advise the injured worker on legal aspects relating to the incident. (10)**

[20 MARKS]

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QUESTION 3

You are involved in the review of extension of new project concerning the proposed extension of Lily Gold mine. The project review team has asked you to conduct a baseline risk assessment of the project. The purpose of conducting such a baseline HIRA is to establish a risk profile or a set of risk profiles. It is usually used to prioritise action programmes for issue-based risk assessments.

- 3.1 Outline your main considerations in the construction and running of this mining company. (15)**
- 3.2 Vibrations remains one of the biggest causes of fatalities and major injuries in the mine. What would you recommend for the management of vibrations? (15)**
- 3.3 How will the risk assessment help Lily Gold mine to comply with the OHS act? (20)**

[50 MARKS]

QUESTION 4

- 4.1 Explain the factors to take into consideration during biological monitoring? (10)**
- 4.2 Explain how health and safety officers or practitioners contribute in Biological monitoring? (15)**

[25 MARKS]

QUESTION 5

You landed a Construction Health and Safety Agent (CHSA) position at Murray and Roberts and there need to register with The South African Council for the Project and Construction Management Professions (SACPCMP) as a CHSA. A Construction Health and Safety Agent must be able to perform standard services under 6 project stages during the execution of his duties and demonstrate 9 Knowledge Areas during his competency assessment with the SACPCPM as CHSA.

- 5.1 Outline the 6 project stages by defining each stage accordingly? (6)**
- 5.2 Elaborate on the 9 Knowledge Areas you need to convince the assessor of your competence to be registered and operate in your chosen category of registration as CHSA? (9)**

[15 MARKS]

TOTAL MARKS 150